

(1) Publication number: 0 572 162 A3

12

EUROPEAN PATENT APPLICATION

(21) Application number: 93303875.4

(22) Date of filing: 19.05.93

61 Int. CI.5: **H02P 7/28**, H02P 6/02,

G01R 19/15

(30) Priority: 29.05.92 US 890945

(43) Date of publication of application : 01.12.93 Bulletin 93/48

84 Designated Contracting States : DE FR GB IT

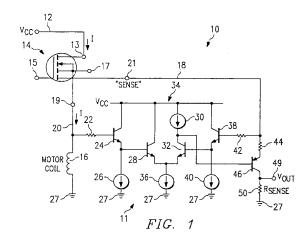
88) Date of deferred publication of search report: 20.07.94 Bulletin 94/29

(1) Applicant: SGS-THOMSON MICROELECTRONICS, INC. 1310 Electronics Drive Carrollton Texas 75006 (US) (2) Inventor: Carobolante, Francesco 4291 Norwalk Drive, No. V105 San Jose, California 95129 (US)

(4) Representative: Palmer, Roger et al PAGE, WHITE & FARRER 54 Doughty Street London WC1N 2LS (GB)

54) Sense FET and fast amplifier.

A circuit for providing drive current to a coil of a motor uses a sensefet current sensing device having a sense node and a source node. The source node is connected to deliver current to the coil, wherein a "sense" current proportional to said delivered current is produced on the sense node. An amplifier is connected to sense a voltage between said sense and source nodes to produce an output voltage to force a voltage on the sense node to be the same as a voltage on the source node. A pass element is connected to route said "sense" current to an output node. The circuit produces an output that is suitable for use as a feedback signal in a motor control system.





EUROPEAN SEARCH REPORT

Application Number EP 93 30 3875

DOCUMENTS CONSIDERED TO BE RELEVANT					
Category	Citation of document with inc of relevant pass		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.5)	
x	EP-A-0 294 880 (PHIL ASSOCIATED INDUSTRIE 1988	IPS ELECTRONIC AND S LIMITED) 14 December	1-4,16, 17	H02P7/28 H02P6/02 G01R19/15	
'	* abstract; claim 11 * column 8, line 11 figure 2 *	* - column 9, line 36; 	5,7,9-11	-11	
(EP-A-0 227 149 (NV F GLOEILAMPENFABRIEKEN		1-4,16, 17		
Y	* abstract * * column 3, line 5 - figure *		5,7,9-11	11	
1	EP-A-0 467 655 (NEC January 1992	•	5		
A	* column 1, line 5 -	- line 36; figure 1 *	12,15		
Y	4TH EUROPEAN CONFERENCE ON POWER ELECTRONICS AND APPLICATIONS, vol.3, September 1991, FLORENCE, ITALY pages 322 - 325		7,9-11	TECHNICAL FIELDS	
		•		SEARCHED (Int.Cl.5) H02P G01R H03F	
A	US-A-4 654 568 (MANSMANN) 31 March 1987 * column 1, line 61 - column 2, line 50; figure * EP-A-0 332 547 (SGS-THOMSON MICROELECTRONICS S.A.) 13 September 1989 * column 1, line 6 - line 47 * * column 3, line 34 - line 63; figure 4 *				
A			8		
	The present search report has be	en drawn up for all claims			
Place of search Date of completion of the search			<u> </u>	Examiner	
THE HAGUE 16 May		16 May 1994	Воц	urbon, R	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-writen disclosure P: intermediate document document document document document document			cument, but publate in the application for other reasons	n	